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1614<sup>HS</sup>

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/005,318

DATE: 10/30/98  
TIME: 10:44:41

INPUT SET: S29543.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1  
2  
3 (1) General Information:

4  
5 (i) APPLICANTS: Hein, Mich B.  
6 Hiatt, Andrew C.  
7 Fitchen, John H.

8 (ii) TITLE OF INVENTION: NOVEL EPITHELIAL TISSUE TARGETING AGENT  
9

10 (iii) NUMBER OF SEQUENCES: 113

11 (iv) CORRESPONDENCE ADDRESS:

12  
13 (A) ADDRESSEE: SEED and BERRY LLP  
14 (B) STREET: 6300 Columbia Center, 701 Fifth Avenue  
15 (C) CITY: Seattle  
16 (D) STATE: Washington  
17 (E) COUNTRY: USA  
18 (F) ZIP: 98104

19 (v) COMPUTER READABLE FORM:

20  
21 (A) MEDIUM TYPE: Floppy disk  
22 (B) COMPUTER: IBM PC compatible  
23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

25 (vi) CURRENT APPLICATION DATA:

26  
27 (A) APPLICATION NUMBER: US 09/005,318  
28 (B) FILING DATE: 09-JAN-1998  
29 (C) CLASSIFICATION:

30 (viii) ATTORNEY/AGENT INFORMATION:

31  
32 (A) NAME: Maki, David J.  
33 (B) REGISTRATION NUMBER: 31,392  
34 (C) REFERENCE/DOCKET NUMBER: 310098.401C1

35 (ix) TELECOMMUNICATION INFORMATION:

36  
37 (A) TELEPHONE: (206) 622-4900  
38 (B) TELEFAX: (206) 682-6031

39  
40 (2) INFORMATION FOR SEQ ID NO:1:  
41

42 (i) SEQUENCE CHARACTERISTICS:  
43 (A) LENGTH: 137 amino acids  
44 (B) TYPE: amino acid

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47 (C) STRANDEDNESS:  
48 (D) TOPOLOGY: linear  
49  
50  
51  
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53 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
54

55 Gln Glu Asp Glu Arg Ile Val Leu Val Asp Asn Lys Cys Lys Cys Ala  
56 1 5 10 15  
57 Arg Ile Thr Ser Arg Ile Ile Arg Ser Ser Glu Asp Pro Asn Glu Asp  
58 20 25 30  
59 Ile Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Asn Arg Glu  
60 35 40 45  
61 Asn Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Arg Pro Val Tyr His  
62 50 55 60  
63 Leu Ser Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu Asp  
64 65 70 75 80  
65 Asn Gln Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp Ser  
66 85 90 95  
67 Ala Thr Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Ala  
68 100 105 110  
68 Val Val Pro Leu Val Tyr Gly Gly Glu Thr Lys Met Val Glu Thr Ala  
69 115 120 125  
70 Leu Thr Pro Asp Ala Cys Tyr Pro Asp  
71 130 135  
72

73 (2) INFORMATION FOR SEQ ID NO:2:  
74

75 (i) SEQUENCE CHARACTERISTICS:  
76 (A) LENGTH: 135 amino acids  
77 (B) TYPE: amino acid  
78 (C) STRANDEDNESS:  
79 (D) TOPOLOGY: linear  
80  
81

82 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
83

84 Gln Asp Glu Asn Glu Arg Ile Val Val Asp Asn Lys Cys Lys Cys Ala  
85 1 5 10 15  
86

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100 Arg Ile Thr Ser Arg Ile Ile Pro Ser Ala Glu Asp Pro Ser Gln Asp  
101 20 25 30  
102 Ile Val Glu Arg Asn Val Arg Ile Ile Val Pro Leu Asn Ser Arg Glu  
103 35 40 45  
104  
105 Asn Ile Ser Asp Pro Thr Ser Pro Met Arg Thr Lys Pro Val Tyr His  
106 50 55 60  
107  
108 Leu Ser Asp Leu Cys Lys Lys Cys Asp Thr Thr Glu Val Glu Leu Glu  
109 65 70 75 80  
110  
111 Asp Gln Val Val Thr Ala Ser Gln Ser Asn Ile Cys Asp Ser Asp Ala  
112 85 90 95  
113  
114 Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Asn Arg Val  
115 100 105 110  
116  
117 Lys Leu Ser Tyr Arg Gly Gln Thr Lys Met Val Glu Thr Ala Leu Thr  
118 115 120 125  
119  
120 Pro Asp Ser Cys Tyr Pro Asp  
121 130 135  
122  
123  
124  
125 (2) INFORMATION FOR SEQ ID NO:3:  
126  
127 (i) SEQUENCE CHARACTERISTICS:  
128 (A) LENGTH: 137 amino acids  
129 (B) TYPE: amino acid  
130 (C) STRANDEDNESS:  
131 (D) TOPOLOGY: linear  
132  
133  
134  
135  
136  
137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
138 Asp Asp Glu Ala Thr Ile Leu Ala Asp Asn Lys Cys Met Cys Thr Arg  
139 1 5 10 15  
140  
141 Val Thr Ser Arg Ile Ile Pro Ser Thr Glu Asp Pro Asn Glu Asp Ile  
142 20 25 30  
143  
144 Val Glu Arg Asn Ile Arg Ile Val Val Pro Leu Asn Asn Arg Glu Asn  
145 35 40 45  
146  
147 Ile Ser Asp Pro Thr Ser Pro Leu Arg Arg Asn Pro Val Tyr His Leu  
148 50 55 60  
149  
150 Ser Asp Val Cys Lys Lys Cys Asp Pro Val Glu Val Glu Leu Glu Asp  
151 65 70 75 80  
152

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153 Gln Val Val Thr Ala Thr Gln Ser Asn Ile Cys Asn Glu Asp Asp Gly  
154 85 90 95  
155  
156 Val Pro Glu Thr Cys Tyr Met Tyr Asp Arg Asn Lys Cys Tyr Thr Thr  
157 100 105 110  
158  
159 Met Val Pro Leu Arg Tyr His Gly Glu Thr Lys Met Val Gln Ala Ala  
160 115 120 125  
161  
162 Leu Thr Pro Asp Ser Cys Tyr Pro Asp  
163 130 135  
164  
165  
166 (2) INFORMATION FOR SEQ ID NO:4:  
167  
168 (i) SEQUENCE CHARACTERISTICS:  
169 (A) LENGTH: 136 amino acids  
170 (B) TYPE: amino acid  
171 (C) STRANDEDNESS:  
172 (D) TOPOLOGY: linear  
173  
174  
175  
176  
177  
178 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
179  
180 Glu Asp Glu Ser Thr Val Leu Val Asp Asn Lys Cys Gln Cys Val Arg  
181 1 5 10 15  
182 Ile Thr Ser Arg Ile Ile Arg Asp Pro Asp Asn Pro Ser Glu Asp Ile  
183 20 25 30  
184  
185 Val Glu Arg Asn Ile Arg Ile Ile Val Pro Leu Asn Thr Arg Glu Asn  
186 35 40 45  
187  
188 Ile Ser Asp Pro Thr Ser Pro Leu Arg Thr Glu Pro Lys Tyr Asn Leu  
189 50 55 60  
190  
191 Ala Asn Leu Cys Lys Lys Cys Asp Pro Thr Glu Ile Glu Leu Asp Asn  
192 65 70 75 80  
193  
194 Gln Val Phe Thr Ala Ser Gln Ser Asn Ile Cys Pro Asp Asp Tyr  
195 85 90 95  
196  
197 Ser Glu Thr Cys Tyr Thr Tyr Asp Arg Asn Lys Cys Tyr Thr Thr Leu  
198 100 105 110  
199  
200 Val Pro Ile Thr His Arg Gly Val Thr Arg Met Val Lys Ala Thr Leu  
201 115 120 125  
202  
203 Thr Pro Asp Ser Cys Tyr Pro Asp  
204 130 135  
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206  
207 (2) INFORMATION FOR SEQ ID NO:5:208  
209 (i) SEQUENCE CHARACTERISTICS:  
210 (A) LENGTH: 119 amino acids  
211 (B) TYPE: amino acid  
212 (C) STRANDEDNESS:  
213 (D) TOPOLOGY: linear

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218 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

219  
220 Glu Gln Glu Tyr Ile Leu Ala Asn Asn Lys Cys Lys Cys Val Lys Ile  
221 1 5 10 15222 Ser Ser Arg Phe Val Pro Ser Thr Glu Arg Pro Gly Glu Ile Leu  
223 20 25 30224 Glu Arg Asn Ile Gln Ile Thr Ile Pro Thr Ser Ser Arg Met Xaa Ile  
225 35 40 45226 Ser Asp Pro Tyr Ser Pro Leu Arg Thr Gln Pro Val Tyr Asn Leu Trp  
227 50 55 60228 Asp Ile Cys Gln Lys Cys Asp Pro Val Gln Leu Glu Ile Gly Gly Ile  
229 65 70 75 80230 Pro Val Leu Ala Ser Gln Pro Xaa Xaa Ser Xaa Pro Asp Asp Glu Cys  
231 85 90 95232 Tyr Thr Thr Glu Val Asn Phe Lys Lys Val Pro Leu Thr Pro Asp  
233 100 105 110234 Ser Cys Tyr Glu Tyr Ser Glu  
235 115

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238 (2) INFORMATION FOR SEQ ID NO:6:

239 (i) SEQUENCE CHARACTERISTICS:  
240 (A) LENGTH: 128 amino acids  
241 (B) TYPE: amino acid  
242 (C) STRANDEDNESS:  
243 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

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**SEQUENCE VERIFICATION REPORT**  
PATENT APPLICATION **US/09/005,318**

DATE: 10/30/98  
TIME: 10:44:45

***INPUT SET: S29543.raw***

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Original Text